

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

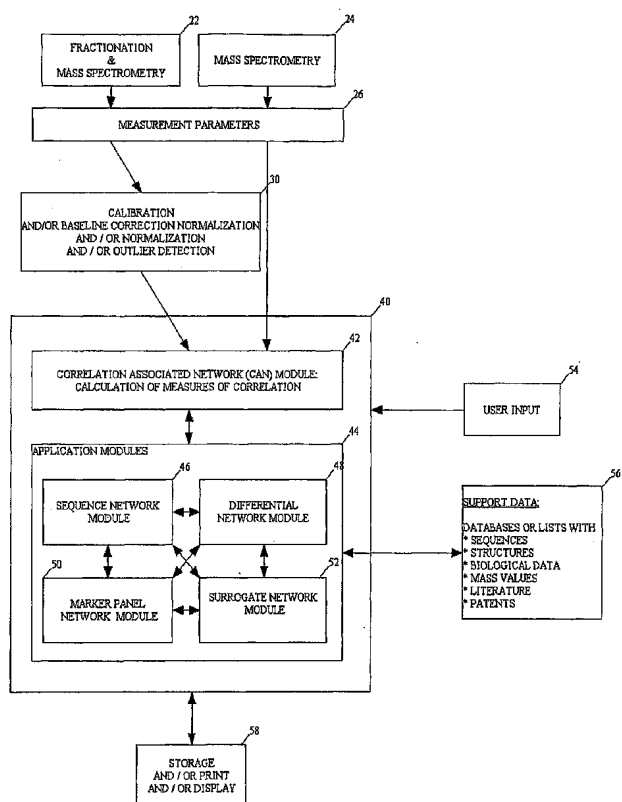
PCT

(10) International Publication Number
WO 2005/069187 A3

- (51) International Patent Classification⁷: **G06F 19/00**, **G01N 33/68**
- (21) International Application Number:
PCT/EP2005/000090
- (22) International Filing Date: 7 January 2005 (07.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
04000170.3 7 January 2004 (07.01.2004) EP
- (71) Applicant (for all designated States except US): **BIOVISION AG** [DE/DE]; Feodor-Lynen-Strasse 5, 30625 Hannover (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ZUCHT, Hans-Dieter** [DE/DE]; Von-Eschte-Strasse 6, 30539 Hannover (DE). **LAMERZ, Jens** [DE/DE]; Aegidiendamm 9, 30169 Hannover (DE). **KHAMENIA, Valery** [DE/DE]; Ziegelhof 2, 30655 Hannover (DE).
- (74) Agents: **VOSSIUS, Volker** et al.; Geibelstrasse 6, 81679 München (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHODS AND SYSTEM FOR THE IDENTIFICATION AND CHARACTERIZATION OF PEPTIDES AND THEIR FUNCTIONAL RELATIONSHIPS BY USE OF MEASURES OF CORRELATION



(57) Abstract: The invention provides methods and a system implementing these methods for identifying and characterizing peptides and their functional relationships by use of measures of correlation. These methods are based on the interaction of a Correlation Associated Network Module with several Application Modules including a Sequence Network Module, a Differential Network Module, a Marker Panel Network Module and a Surrogate Network Module allowing e.g. the provision of a representative overview of the peptide content of biological samples, the prediction of peptide sequences, the identification of peptides suitable to be used as marker panels and the identification of peptides suitable as surrogates for a known peptide.

WO 2005/069187 A3



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

2 March 2006